PHYSOR-2004

The Physics of Fuel Cycles and Advanced Nuclear Systems: Global Developments



April 25-29, 2004 Preliminary Program



www.physor2004.anl.gov



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We welcome your participation at the PHYSOR-2004 Topical Meeting in April, 2004. Over 60 years ago, Chicago served as the birthplace of nuclear reactor technology. Today, the city provides a fitting location for the presentation of global developments in reactor and fuel cycle physics for mature technologies, and for a new generation of nuclear systems.

Best Regards,

Massimo Salvatores

General Chairs, PHYSOR-2004

Yoon Chang

PHYSOR 2004 is a topical meeting sponsored by the Reactor Physics Division of the American Nuclear Society, and co-sponsored by the Mathematics & Computation Division.

Non-financial support is also provided by these organizations: Atomic Energy Society of Japan, Brazilian National Atomic Energy Commission, British Nuclear Energy Society, The Belarus, Bulgarian, Canadian, Croatian, European, French, Hungarian, Israel, Korean, and Swiss Nuclear Societies, OECD/NEA, Romanian Nuclear Energy Association, and Nuclear Society of Slovenia.



The following companies and organizations have made generous financial contributions to the success of PHYSOR 2004. Their support is greatly appreciated.

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Dear Colleague,

The Reactor Physics Division of the American Nuclear Society (ANS) appreciates your participation in the PHYSOR-2004 Topical Meeting, held at the Hyatt Regency Hotel, Chicago, Illinois. This four-day meeting is hosted by the Chicago Section of the ANS and co-sponsored by many international organizations.

The theme of the meeting is *The Physics of Fuel Cycles and Advanced Nuclear Systems: Global Developments*. The technical sessions cover 21 separate topics, and 5 plenary sessions with internationally known speakers are also on the schedule. On the following pages, we are pleased to provide the agenda for the technical sessions and other special events. The scheduled date and time for each presentation are also provided.

In addition to the technical program, we want to remind you about three special events that are taking place on the days before and after the meeting.

- MCNP Criticality Workshop, Sunday, April 25, 1 to 5 pm. This free workshop will be held at the Hyatt Regency. The session will include an overview of MCNP criticality calculations and specific discussions of new features in MCNP5, including mesh tallies, the ENDF66 and SAB2002 nuclear data libraries, and generation of temperature-specific nuclear data libraries. In addition, there will be discussion of additional capabilities being developed for the next release of MCNP. Presenters will be Forrest Brown and Russ Mosteller from the MCNP team at Los Alamos National Laboratory. Meeting registration is required to participate in this workshop.
- Welcome Reception at the Art Institute of Chicago, Sunday, April 25, 6 to 9 pm. One ticket to this special reception is included with your conference registration. The reception will be held on Sunday evening, from 6 to 9 PM, and will include access to the Grand Staircase, the Gunsaulus Hall, and viewing of the Chagall Windows and the Impressionists and Post-

Windows and the Impressionists and Post-Impressionists exhibits. The Art Institute is just a short walk from the Hyatt.

• Generation-IV Reactor Physics Workshop,

Friday, April 30, 8 am to 5 pm. The intent of this workshop is to have international experts present/discuss ongoing R&D activities in the design and evaluation of

the advanced nuclear systems. Core physics design and nuclear data needs and issues will be discussed along with proposals for international collaborations for meeting these needs. This all-day workshop will have presentations and discussion sessions. It will be held at the Hyatt Regency and meeting registration is required.

We encourage you to participate in these events as your schedule allows. We are looking forward to a full and informative meeting and hope you enjoy your stay in Chicago!

Best Regards,

Phillip Finck, Technical Program Committee Chair, PHYSOR-2004

Hotel and Local Area Information



The PHYSOR-2004 meeting will be held at the Hyatt Regency in downtown Chicago. The Hyatt is located at 151 East Wacker Drive, near the lakefront and just north of the heart of the Chicago business district (the "loop").

Reservations can be made by calling the Hyatt Reservation Desk at 312/565-1234 or 800/233-1234. When calling the reservation desk, be sure to mention that you are attending the American Nuclear Society topical meeting PHYSOR-2004. You can also make hotel reservations on-line by following the special link on our website at www.physor2004.anl.gov/hotel.htm.

Reservations made before March 26, 2004 are guaranteed a special meeting room rate of \$174 (U.S.) per night (single- or double-occupancy), plus applicable taxes. After March 26,

reservations for special-rate rooms will be accepted on an "as available" basis. When making your reservation by phone, please indicate that you are attending the PHYSOR-2004 meeting to receive the special meeting rate.

Valet parking at the Hyatt Regency is available. Overnight parking with in/out privileges is \$35; daytime parking is \$16 (out by 7 p.m.). Self-parking lots are also located near the hotel. The East and West Tower Doormen at the Hyatt Regency will be happy to secure a cab for your return trip to either airport, or to any other destination.

Chicago is served by both O'Hare International (ORD) and Midway (MDW) Airports, with domestic and international flights offered by many carriers. From either airport, rental car, limousine, shuttle service, taxi, or public transportation (www.transitchicago.com) can be used to reach the Hyatt, and other downtown destinations.

Many restaurants and other entertainment attractions are within walking distance of the hotel, or you can use public transportation or taxi service. Chicago attractions include

- The Field Museum of Natural History, Shedd Aquarium, Adler Planetarium
- Navy Pier, Michigan Avenue, Water Tower Place
- Broadway in Chicago, The Chicago Theater, Second City Comedy Club
- Wrigley Field (Chicago Cubs), U.S. Cellular Field (Chicago White Sox)







PHYSOR-2004 Meeting Schedule (All events at the Hyatt Regency Chicago unless otherwise indicated)

Day	Session	Time	Room	Session
Sunday,		1:00 PM - 5:00 PM	Columbus EF	MCNP5 Criticality Workshop
April 25		6:00 PM - 9:00 PM	Art Institute	Welcome Reception at Art Institute of Chicago

		7:00 AM -	8:00 AM	TBA	Speakers' Breakfast
		8:30 AM -	12:00 PM	Grand AB	Plenary Session - International Perspectives in Reactor Physics
		12:00 PM -	1:30 PM	Columbus IJKL	Luncheon - Historical Perspectives on Reactor Physics Experiments
Manday	1A	1:30 PM -	4:50 PM	Columbus EF	International Collaboration in Reactor Physics
Monday, April 26	1B	1:30 PM -	4:50 PM	Columbus G	Monte-Carlo Methods and Developments
	1C	1:30 PM -	4:50 PM	Columbus H	Reactor Physics Benchmarks and Experiments
	1D	1:30 PM -	4:50 PM	Grand A	Reactor Analysis Methods
		3:10 PM -	3:30 PM		Break - All sessions
		5:00 PM -	7:00 PM	Grand AB	Special Session - Reactor Physics for Future Nuclear Systems

		7:00 AM -	8:00 AM	TBA	Speakers' Breakfast
		8:30 AM -	9:45 AM	Grand AB	Plenary Session - Current Needs in Reactor Physics
		9:45 AM -	10:00 AM		Break
	2A	10:00 AM -	12:00 PM	Columbus EF	Deep-Burn Physics and Methodology
	2B	10:00 AM -	12:00 PM	Columbus G	Accelerator Applications and Spallation Physics
	2C	10:00 AM -	12:00 PM	Columbus H	Reactor Physics and Materials Issues
	2D	10:00 AM -	12:00 PM	Grand A	Advances in LWR Analyses
Tuesday,		12:00 PM -	1:00 PM		Lunch Break
April 27		1:00 PM -	2:15 PM	Grand AB	Plenary Session - Experimental Activities in Reactor Physics
		2:15 PM	2:30 PM		Break
	3A	2:30 PM -	4:50 PM	Columbus EF	Reactor and Neutron Physics
	3B	2:30 PM -	4:50 PM	Columbus G	Research Reactors
	3C	2:30 PM -	4:50 PM	Columbus H	Fuel Cycle Physics
	3D	2:30 PM -	4:50 PM	Grand A	Criticality Benchmarks
	4A	5:00 PM -	7:00 PM	Crystal Ballroom Foyer	Poster Session and Reception
		7:00 PM -	10:00 PM	Crystal Ballroom	Banquet

PHYSOR-2004 Meeting Schedule (All events at the Hyatt Regency Chicago unless otherwise indicated)

Day	Session	Tin	ne	Room	Session
		7:00 AM -	8:00 AM	TBA	Speakers' Breakfast
	5A	8:30 AM -	11:50 AM	Columbus EF	Fuel/Core Design and Analysis
	5B	8:30 AM -	11:50 AM	Columbus G	Gas-Cooled Reactors
	5C	8:30 AM -	11:50 AM	Columbus H	Critical and Subcritical Experiments
	5D	8:30 AM -	11:50 AM	Wrigley	Reactor Analysis Methods
Wednesday,		10:10 AM -	10:30 AM		Break
April 28		12:00 PM -	1:30 PM	Columbus IJKL	Luncheon - Emerging Areas in Reactor Physics
	6A	1:30 PM -	4:50 PM	Columbus EF	Advanced Reactor Designs
	6B	1:30 PM -	4:50 PM	Columbus G	Nuclear Safety
	6C	1:30 PM -	4:50 PM	Columbus H	Physics Code Validation
	6D	1:30 PM -	4:50 PM	Wrigley	Reactor Analysis Methods
		3:10 PM -	3:30 PM		Break - All sessions

		7:00 AM - 8:0	00 AM	TBA	Speakers' Breakfast
		8:30 AM - 9:4	45 AM	Regency A	Plenary Session - Efforts in Code Development and Reactor Modeling
	7A	10:00 AM - 12	2:00 PM	Columbus EF	Non-Conventional Reactors
	7B	10:00 AM - 12	2:00 PM	Columbus G	Nuclear Data
Thursday	7C	10:00 AM - 12	2:00 PM	Columbus H	Nuclear Safety
Thursday, April 29	7D	10:00 AM - 12	2:00 PM	Columbus IJ	Physics and Modeling of Research Reactors in INIE's Big-10 Consortium
		12:00 PM - 1:0	00 PM		Lunch Break
	8A	1:00 PM - 3:	20 PM	Columbus EF	Fuel Cycle Physics
	8B	1:00 PM - 3:4	40 PM	Columbus G	Nuclear Data
	8C	1:00 PM - 3:	20 PM	Columbus H	Physics Code Validation
	8D	1:00 PM - 3:4	40 PM	Columbus IJ	Reactor Analysis Methods

Friday, April 30	8:00 AM - 5:00	M Columbus EF	Generation IV Reactor Physics Workshop
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The technical sessions will cover the 21 topics listed below. An abstract book and CD-ROM containing all papers presented in the technical and poster sessions is included with the meeting registration. Additional CD-ROMs may be purchased when you complete your meeting registration.

Accelerator Applications and Spallation Physics Advanced Reactor Designs Advances in LWR Analyses Critical and Subcritical Experiments Criticality Benchmarks Deep-Burn Physics and Methodology Fuel Cycle Physics Fuel/Core Design and Analysis **Gas-Cooled Reactors** International Collaboration in Reactor Physics Monte-Carlo Methods and Developments Non-Conventional Reactors Nuclear Data Nuclear Safety Physics and Modeling of Research Reactors in INIE's Big-10 Consortium Physics Code Validation Reactor Analysis Methods Reactor and Neutron Physics Reactor Physics and Materials Issues Reactor Physics Benchmarks and Experiments Research Reactors

Speakers are allotted 20 minutes for their presentation, including questions. Overhead and LCD projection equipment will be available, and arrangements are being made to have laptop computers available in each meeting room. We suggest that you bring your presentation on a CD-ROM or portable USB-drive in Adobe Acrobat (.pdf) or PowerPoint (.ppt) format. Please test the file on one of the computers ahead of your session time. In the event of an incompatibility of file formats, presenters should be prepared with an alternative (e.g. their own laptop computer or overhead transparencies).



PHYSOR-2004 Meeting Program

Monday, April 26, 2004, 8:30 A.M.

Plenary Session - International Perspectives in Reactor Physics

Grand AB

Jacques Bouchard (French Atomic Energy Commission - CEA)

Nicolai Ponomarev-Stepnoi (Kurchatov Institute)

Yosiaki Oka (University of Tokyo)

Burton Richter (Stanford Linear Accelerator Center)

Monday, April 26, 2004, 12:00 P.M.

Luncheon Columbus IJKL

Historical Perspectives on Reactor Physics Experiments, Massimo Salvatores

Monday, April 26, 2004, 1:30 P.M.

Monday,	April 26, 2004, 1:30 P.M.	
Session	1A International Collaboration in Reactor Physics	Columbus EF
	nizers: Thomas J. Downar (Purdue University). Session Chairs: Thomas ot (CEA Cadarache).	J. Downar (Purdue University), Jean-
1:30 PM	The Numerical Nuclear Reactor for High Fidelity Integrated Simulation Thermo Mechanical Phenomena - Project Overview, David P. Weber (
1:50 PM	Methods and Performance of a Three-Dimensional Whole-Core Transpoung Cho, Kang Seog Kim, Chung Chan Lee, Sung Quun Zee (Kore	
2:10 PM	Consistent Comparison of Monte Carlo and Whole-Core Transport So Feedback, Han Gyu Joo, Jin Young Cho, Kyo Youn Kim, Moon Hee C Institute), Beom Seok Han, Chang Hyo Kim (Seoul National University	Chang (Korea Atomic Energy Research
2:30 PM	Evaluation of Turbulence Models for Flow and Heat Transfer in Fuel I (ANL)	Rod Bundle Geometries, Tanju Sofu
2:50 PM	Methodology for Coupling Computational Fluid Dynamics with Integer Thomas, Zhaopeng Zhong (Purdue University), Tanju Sofu (ANL), Th	*
3:10 PM	Break	
3:30 PM	Coupled Calculations using the Numerical Nuclear Reactor for Integra Thermal-Hydraulic Phenomena, David P. Weber (ANL)	tted Simulation of Neutronic and
3:50 PM	OSMOSE: An Experimental Program for the Qualification of Integral Pascal Hudelot (CEA Cadarache), Raymond Klann (ANL), Phillippe F Genin, Nicolas Drin (CEA Valrho), Louis Donnet (CEA)	· · · · · · · · · · · · · · · · · · ·
4:10 PM	MINERVE Reactor Characterization in Support of the OSMOSE Prog (ANL), Jean-Pascal Hudelot, Muriel Antony (CEA Cadarache), Bradle Gregory Perret (CEA), Jean-Michel Girard, Valerie Laval (CEA Cadar	ey Micklich, George Imel (ANL),
4:30 PM	HTR-N Plutonium Cell Burnup Benchmark: Definition, Results & Inte	ercomparison, Jim C. Kuijper (NRG)
Session	1B Monte-Carlo Methods and Developments	Columbus G
_	nizers: Forrest Brown (LANL), Richard Sanchez (CEA), Laurie Waters ((Delft University of Technology), William R. Martin (University of Mic	
1:30 PM	Monte Carlo Parameter Studies and Uncertainty Analyses with MCNP Bruce Hayes (Washington TRU Solutions)	5, Forrest Brown (LANL), Robert
1:50 PM	Theoretical and Practical Study of the Variance and Efficiency of a Mo	onte Carlo Calculation due to Russian



Roulette, J. Eduard Hoogenboom (Delft University of Technology)

2:10 PM	Variance Reduction Techniques for the Monte Carlo Simulation of Neutron Noise Measurements, Máté Szieberth (Budapest University of Technology and Economics), Jan Leen Kloosterman (Delft University of Technology)			
2:30 PM	Two Dimensional Functional Expansion Tallies for Monte Carlo Simulations, David P. Griesheimer, William R. Martin (University of Michigan)			
2:50 PM	Point KENO V.a: A Continuous-Energy Monte Carlo Code for Criticality Safety Applications, Michael Dunn, Maurice Greene, Dan F. Hollenbach, L. M. Petrie (ORNL)			
3:10 PM	Break			
3:30 PM	Eigenfunction Convergence and Transmutation Enhancements in MCNPX, Gregg McKinney, Holly Trellue, John Hendricks, Laurie Waters (LANL)			
3:50 PM	Continuously Varying Material Properties and Tallies for Monte Carlo Calculations, Forrest Brown (LANL), David P. Griesheimer, William R. Martin (University of Michigan)			
4:10 PM	Calculation of the Effective Delayed Neutron Fraction Using Monte Carlo Techniques, Steven C. Van Der Marck, Robin Klein Meulekamp (NRG)			
4:30 PM	Benchmark of MONTEBURNS against Measurements on Irradiated UOX and MOX Fuels, Christos Trakas, Lucien Daudin (FRAMATOME-ANP)			
Session	1C Reactor Physics Benchmarks and Experiments Columbus H			
	zers: Russell D. Mosteller (LANL), Robert Jacqmin (CEA Cadarache), Hironobu Unesaki (Kyoto University). Rakesh Chawla (Paul Scherrer Institute), Farzad Rahnema (Georgia Institute of Technology).			
1:30 PM	Analysis of Benchmark Results for Reactor Physics of LWR Next Generation Fuels, Takanori Kitada (Osaka University), Keisuke Okumura (Japan Atomic Energy Research Institute), Hironobu Unesaki (Kyoto University), Etsuro Saji (Secretariat of The Nuclear Safety Commission)			
1:50 PM	Validation of Depletion Calculation through TAKAHAMA-3 Chemical Assays with JEFF3.0, Arnaud Courcelle, Alain Santamarina (CEA)			
2:10 PM	Analysis of the HTR-10 Initial Core with a Monte Carlo Code MVP, Yasunobu Nagaya, Keisuke Okumura, Takamasa Mori (JAERI), Wataru Nakazato (Tokyo Institute of Technology)			
2:30 PM	OECD/NEA International Benchmark on 3-D VENUS-2 MOX Core Measurements, Nadia Messaoudi (Belgian Nuclear Research Centre, SCK·CEN), Byung-chan Na (OECD/Nuclear Energy Agency)			
2:50 PM	BN-600 Full MOX Core Benchmark Analysis, Y. I. Kim (IAEA), R. Hill, K. Grimm (ANL), G. Rimpault (CEA Cadarache), T. Newton (Serco Assurance), Z. H. Li (CIAE), A. Rineiski (FZK/IKET), P. Mohanakrishnan (IGCAR), M. Ishikawa (Japan Nuclear Cycle Development Institute), K. B. Lee (KAERI), A. Danilytchev, V. Stogov (IPPE)			
3:10 PM	Break			
3:30 PM	JOYO MK-III Performance Test at Low Power and Its Analysis, Gou Chiba (Japan Nuclear Cycle Development Institute)			
3:50 PM	High Moderation BWRs Fully Loaded with MOX Fuel: The BASALA Experimental Programme, Stephane Cathalau (French Atomic Energy Commission)			
4:10 PM	The Experimental Determination of the Relative Abundances and Decay Constants of Delayed Neutrons of the IPEN/MB-01 Reactor, Adimir Dos Santos, Ricardo Diniz, Rogerio Jerez, Luis Antonio Mai, Mitsuo Yamaguchi (Instituto de Pesquisas Energeticas e Nucleares)			
4:30 PM	The Experimental Determination of the Effective Delayed Neutron Parameters: Beff, Beff/LAMBDA and LAMBDA of the IPEN/MB-01 Reactor, Adimir Dos Santos, Ricardo Diniz, Leda C. C. B. Fanaro, Rogerio Jerez, Graciete S. A. Silva, Mitsuo Yamaguchi (Instituto de Pesquisas Energeticas e Nucleares)			
Session	1D Reactor Analysis Methods Grand A			
	zers: Giuseppe Palmiotti (ANL), Giovanni Bruna (Framatome ANP), Jasmina Vujic (UC Berkley). Session ni Bruna (Framatome ANP), Giuseppe Palmiotti (ANL).			
1:30 PM	Status of Reactor Analysis Methods and Codes in the U.S.A., Won Sik Yang, Temitope A. Taiwo (ANL)			
1:50 PM	Validation of WIMS9, Tim Newton, Les Hutton, Ray Perry (Serco Assurance)			
2:10 PM	Application of the DSA Preconditioned GMRES Formalism to the Method of Characteristics - First Results , Romain Le Tellier, Alain Hebert, Professor (Ecole Polytechnique de Montreal)			
2:30 PM	Improvement of the SPH Method for Multi-Assembly Calculations, Akio Yamamoto, Yasunori Kitamura, Yoshihiro Yamane (Nagoya University)			



2:50 PM	Method of Characteristics Applied to a MTR Whole Core Modeling, Alain Aggery, Corinne D'aletto, Jacques Di-salvo, Richard Sanchez, Simone Santandrea, Michel Soldevila, Guy Willermoz (CEA)
3:10 PM	Break
3:30 PM	3D Characteristics Method with Linearly Anisotropic Scattering, Mohamed Dahmani, Robert Roy, Jean Koclas (École Polytechnique de Montréal)
3:50 PM	A Mutual Resonance Shielding Model Consistent with Ribon Subgroup Equations, Alain Hebert (Ecole Polytechnique de Montreal)
4:10 PM	Sensitivity Studies on Cross-Section Generation and Modeling for BWR Core Simulation Using SAPHYR Code System, Nadejda Todorova, Kostadin Ivanov (Pennsylvania State University), Emmanuel Rigaut, Eric Denis Royer (CEA)
4:30 PM	About Axial Diffusion Coefficient Calculation Analysis, Tamara Semeonovna Poveschenko, Nickolay Ilyich Laletin (RRC 'Kurchatov Institute')

Monday, April 26, 2004, 5:00 P.M.

Special Session - Reactor Physics for Future Nuclear Systems

Grand AB

Hussein Khalil (Argonne National Laboratory)

Jean-Claude Gauthier (Framatome)

Tuesday, April 27, 2004, 8:30 A.M.

Plenary Session - Current Needs in Reactor Physics

Grand AB

Needs Related to the Nuclear Power Industry, Kord Smith (Studsvik-Scandpower)

Needs Related to Nuclear Fuel Cycle Initiatives, Christine Brown (British Nuclear Fuels plc)

Tuesday, April 27, 2004, 10:00 A.M.

Session 2A Deep-Burn Physics and Methodology

Columbus EF

Session Organizers: Alan Baxter (General Atomics), Giovanni Bruna (Framatome ANP), Alexander Stanceulescu (IAEA). Session Chairs: Giovanni Bruna (Framatome ANP).

10:00 AM	Uncertainty Analysis and Optimization Studies on the Deep-Burner Modular Helium Reactor (DB-MHR) for Actinide Incineration, Giovanni B. Bruna, Rocco Labella, and Christos Trakas (FRAMATOME-ANP), Alan Baxter and Carmelo Rodriguez (General Atomics), Francesco Venneri (LANL)
10:20 AM	PBMR Deep-Burn: A Pebble-Bed HTGR Burning Its Own 'Waste', Dirceu F. Da Cruz, J.B.M. De Haas, A.I.

10:40 AM HTGR Actinide Burner Feasibility Studies: Calculation Scheme Related Considerations, Frederic Damian (CEA), Patrick Blanc-Tranchant (CEA - Saclay), Xavier Raepsaet (CEA - Saclay), Jean-Christophe Klein (CEA - Cadarache), Florence Dolci, Oliver Koberl (CEA)

11:00 AM Studies of a Deep Burn Fuel Cycle for the Incineration of Military Plutonium in the GT-MHR using the Monte-Carlo Burnup Code, Alberto Talamo, Waclaw Gudowski (Royal Institute of Technology)

11:20 AM Spectral Shift Methodology for 'Deep-Burnup' of Uranium-Thorium-Hydride-Fuel, Zeev Shayer (University of Denver)

11:40 AM Cascade Reactor Concept for Neutron Multiplication of Subcritical Core, Kazumi Ikeda, Takako Shiraki (Mitsubishi Heavy Industries, Ltd.)

Session 2B Accelerator Applications and Spallation Physics Columbus C

Session Organizers: Eric Pitcher (LANL), Stefano Monti (ENEA), Hiroyuki Oigawa (JAERI). Session Chairs: Eric Pitcher (LANL).

10:00 AM Research and Development Activities for Accelerator Driven System at JAERI, Kazufumi Tsujimoto, Toshinobu Sasa, Hiroyuki Oigawa (Japan Atomic Energy Research Institute)

10:20 AM The Utilization of Small Accelerators to Drive a Zero Power Sub Critical Reactor. A Review of R&D at IPEN-CNEN and IFUSP, José Rubens Maiorino (Institute for Energetic and Nuclear Research (IPEN)), Sérgio Anéfalos Pereira (Institute of Physics (IFUSP))



10:40 AM	The TRADE Experiment: Status of the Project and Physics of the Spallation Target, Stefano Monti, Carlo Rubbia (ENEA), Massimo Salvatores (CEA/ANL), Nunzio Burgio, Mario Carta, Pietro Agostini, Fabrizio Pisacane, Alfonso Santagata (ENEA), Cecille Krakowiak-Aillaud (CEA), Yacine Kadi (European Organization for Nuclear Research), Eric Pitcher (LANL), Jean-Claude Steckmeyer (CNRS), Cornelis Broeders, Dankward Struwe (Karlsruhe), Adonai Herrera-Martinez (University of Cambridge)				
11:00 AM	Impact of Heterogeneous Cm Distribution on Proton Source Efficiency in Accelerator-driven Systems, Per Seltborg, Jan Wallenius, Waclaw Gudowski (Royal Institute of Technology)				
11:20 AM	Reactor-Accelerator Coupled Experiments (RACE): A Feast Venkat Krishna Taraknath Woddi (Texas A&M University)				
11:40 AM	Towards an Improved GELINA Neutron Target, Marek Fla JRC-EC), Danny Lathouwers, Tim Van Der Hagen Jr., Hug				
Session	2C Reactor Physics and Materials Issues	Columbus H			
Session Organ	nizers: Abderrafi M. Ougouag (INEEL). Session Chairs: Abde	errafi M. Ougouag (INEEL).			
10:00 AM	Displacement Kerma Cross Sections for Neutron Interaction Wemple, Clinton Van Siclen (INEEL)	ns in Molybdenum, Abderrafi Ougouag, Charles A.			
10:20 AM	Thermal Neutron Scattering Cross Sections of Thorium Hyd Hugo Gillette, Bernard W. Wehring, Tong Zhou (North Ca				
10:40 AM	EPRI BWRVIP 3-D RAMA Fluence Methodology Benchm	narking, Steven Baker (TransWare Enterprises Inc.)			
11:00 AM	Ab Initio Generation of Thermal Neutron Scattering Cross Hugo Gillette, Bernard W. Wehring, Tong Zhou (North Ca				
11:20 AM	Support Vector Machine in Classification of Positron Lifeti	me Spectra, Senada D. Avdic (Senada Avdic)			
11:40 AM	Research Reactor Application to Iridium-192 Production for Cancer Treatment, Maria Elisa C. M. Rostelato, Constancia Silva, Paulo Roberto Rela, Carlos Zeituni, Vladimir Lepki, Anselmo Feher (Nuclear Energy National Commission, CNEN - BRAZIL)				
Session	2D Advances in LWR Analyses	Grand A			
Session Organ	nizers: Marvin Adams (Texas A&M University). Session Cha	irs: Marvin Adams (Texas A&M University).			
10:00 AM	Renormalized Treatment of the Double Heterogeneity with the Method of Characteristics, Richard Sanchez (CEA)				
10:20 AM	Coarse-Mesh Discretized Low-Order Quasidiffusion Equations for Subregion Averaged Scalar Fluxes, Dmitriy Y. Anistratov (North Carolina State University)				
10:40 AM	Application of a Heterogeneous Coarse Mesh Transport Method to a MOX Benchmark Problem, Benoit Forget, Farzad Rahnema, Scott W. Mosher (Georgia Institute of Technology)				
11:00 AM	Spatially Consistent Coarse-Mesh Discretization of the Low-Order Quasidiffusion Equations, Hikaru Hiruta, Dmitriy Y Anistratov (North Carolina State University)				
11:20 AM	The Implementation of Pin-Cell Discontinuity Factors in PA Application to MOX Fuel Analysis, Tomasz Kozlowski, De University)				
11:40 AM	Diagnostic Tool for Assessing Anomalous Trends in BWR	Core Tracking, Anna Smolinska, John Rea, Atul			

Tuesday, April 27, 2004, 1:00 P.M.

Plenary Session - Experimental Activities in Reactor Physics

Karve, Kenneth Gardner (Global Nuclear Fuel)

Grand AB

 $\label{thm:conditional} \textit{The International Program TRADE-TRIGA Accelerator Driven Experiments}, \textit{George Imel (Argonne National Laboratory)}$

Nuclear Cross Section Measurements within the Advanced Fuel Cycle Initiative, Eric Pitcher (Los Alamos National Laboratory)



Tuesday, April 27, 2004, 2:30 P.M.

Session	3A	Reactor and Neutron Physics	Columbus EF	
Session Organizers: Enrique M. Gonzalez-Romero (CEEMT), Robert N. Hill (ANL). Session Chairs: Enrique M. Gonzalez-Romero (CEEMT), Robert N. Hill (ANL).				
2:30 PM	New	Resonant Mixture Self-Shielding Treatment in the APOLLC	22 Code, Mireille Coste-Delclaux (CEA)	
2:50 PM	Syste	nsion of KIN3D, a Kinetics Capability of VARIANT, for Mo ems, Cristian Rabiti (Forschungszentrum Karlsruhe, Institut f rei Rineiski (Forschungszentrum Karlsruhe)		
3:10 PM	D'an Lebr Tecn	ctivity Assessment and Spatial Time-Effects from the MUSE gelo, Vincenzo Peluso (ENEA), Gerardo Aliberti, Giuseppe l'at (CEA), Enrique M. Gonzalez-Romero (Centro de Estudios nológicos), David Villamarin (CIEMAT), Sandra Dulla, Fabno), Massimo Salvatores (ANL)	Palmiotti, George Imel (ANL), Jean Francois Energéticos Medioambientales y	
3:30 PM		te Carlo Modeling of a Time-of-Flight (ToF) Experiment for ions, Michael T. Wenner, Alireza Haghighat (University of F		
3:50 PM	Plan	lication of the Dynamic Control Rod Reactivity Measuremen ts, Eun-ki Lee, Il-tak Woo, Ho-chul Shin, Suk-Jin Ryu, Sung er Research Institute - KEPRI)		
4:10 PM	Phys	sics Study on Direct Use of U-ZrH1.6 Fuel in PWR, Zeev Sha	ayer (University of Denver)	
4:30 PM		NDU Adjuster Rods Incremental Cross Sections Evaluation: A cle Polytechnique de Montreal)	A Perturbative Approach, Guy Marleau	
Session	3B	Research Reactors	Columbus G	
Session Organ	izers:	Nelson Hanan (ANL), Hamid Ait Abderrahim (SCK-CEN).	Session Chairs: Nelson Hanan (ANL).	
2:30 PM		eling the MIT Reactor Neutronics for LEU Conversion Studi ard E. Pilat, Mujid Kazimi (Massachusetts Institute of Techno		
2:50 PM		ew De-homogenisation Method for Local Power Reconstructions Di-Salvo, Christoph Doderlein, Nicolas Huot (CEA)	ion, Guy Pierre Willermoz, David Blanchet,	
3:10 PM		ty Assessment of Reducing the Tantalum Content of High Fluents, Trent Primm (ORNL)	ux Isotope Reactor Regulating and Safety	
3:30 PM		omated Three Dimensional Depletion Capability for the Pennatip Tippayakul, Kostadin Ivanov (Pennsylvania State Unive		
3:50 PM		R: Criticality Comparison Using a Nodal Code, Monte Carlo (versity of Technology)	Codes and Plant Data, P.F.A. de Leege (Delft	
4:10 PM	Rese	Application of the Zr to the Thermal Neutron Fluence Monito earch Reactor, Myong Seop Kim, Sang Jun Park, Byung Chul nic Energy Research Institute)		
4:30 PM		rmination of the Linear Power in MOX Fuel Rods Irradiated lear Research Center))	at BR2, Edgar Koonen, (SCK-CEN (Belgian	
Session	3C	Fuel Cycle Physics	Columbus H	
	Session Organizers: Alain Zaetta (CEA Cadarache), Michael Todosow (BNL). Session Chairs: Michael Todosow (BNL), Alain Zaetta (CEA Cadarache).			
2:30 PM		Physics of TRU Transmutation A Systematic Approach to atores (CEA & ANL), Robert N. Hill (ANL), Igor Slessarev,		
2:50 PM		amic Analysis of the AFCI Scenarios, Abdellatif M. Yacout, nck (ANL), Erich Schneider, Charles G. Bathke (LANL), J. S		
3:10 PM		ertainty Analysis on Back-end Fuel Cycle Main Parameters, (AMATOME-ANP), Enrico Padovani and Alberto Michelotti		
3:30 PM		ctiveness of Different Burnable Poisons in a Long Cycle BW (Massachusetts Institute of Technology)	R, Yuichiro Inoue, Zhiwen Xu, Edward E.	
3:50 PM		ies of Advanced Fuel Cycles in Indian PHWRs and AHWR, h, Umasankari Kannan, Arvind Kumar, Sadhana Mukerji (B		



- 4:10 PM Influence of Nuclear Fuel Cycle Duration and Reprocessing Losses Level on the Nuclear Power System Structure, Stanislav A. Subbotin, Pavel N. Alekseev, Anatoly A. Dudnikov (Russian Research Center Kurchatov Institute)
- 4:30 PM Assessment of Reduced Moderation Water Reactor Fuel Cycle, Taek Kyum Kim, Won Sik Yang, Temitope A. Taiwo, Robert N. Hill (ANL)

Session 3D Criticality Benchmarks

Grand A

Session Organizers: Russell D. Mosteller (LANL), Robert Jacqmin (CEA Cadarache), Hironobu Unesaki (Kyoto University). Session Chairs: Richard D. McKnight (ANL), Hironobu Unesaki (Kyoto University).

- 2:30 PM TransLAT Lattice Physics Code Benchmark to the B&W Gadolinia Criticals, Steven Baker (TransWare Enterprises Inc.)
- 2:50 PM ENDF/B-V and ENDF/B-VI Calculations for the LWBR SB Core Benchmarks with MCNP5, Russell D. Mosteller (LANL)
- 3:10 PM Benchmark Comparisons of Deterministic and Monte Carlo Codes for a PWR Heterogeneous Assembly Design, Taek K. Kim, John Stillman, Temitope A. Taiwo (ANL), Christine Chabert, Laurence Mandard (CEA)
- 3:30 PM Analysis of the Experimental Program MISTRAL Using CASMO-4, Akiko Kanda, Tetsuo Nakajima, Kyoko Sano (Japan Nuclear Energy Safety Organization)
- 3:50 PM Solution of the C5G7 3-D Extension Benchmark by the SN Code TORT, Armin Seubert, Winfried Zwermann, Siegfried Langenbuch (Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH)
- 4:10 PM Solutions to the New C5G7MOX Three-Dimensional Transport Benchmarks Using the TORT Code, Jesse Klingensmith, Yousry Youssef Azmy (Pennsylvania State University), Jess Gehin (ORNL), Roberto Orsi (ENEA FIS-NUC)
- 4:30 PM Creation of a Simplified Benchmark Model for the Neptunium Sphere Experiment, Russell D. Mosteller, David J. Loaiza, Rene G. Sanchez (LANL)

Tuesday, April 27, 2004, 5:00 P.M.

Session 4A Poster Session and Reception

Crystal Ballroom Foyer

Monte-Carlo Techniques to Simulate Pebble Dislocations in a PB-MR during Depletion, Nunzio Burgio (ENEA - CRE Casaccia), Giovanni Bruna (Framatome), Alfonso Santagata (ENEA - CRE Casaccia), Rocco Labella, Engineer (FRAMATOME-ANP), Jessica Beati, Augusto Gandini (University of Rome La Sapienza)

Design of Pebble-Bed Reactors Using a Genetic Algorithm, Hans D. Gougar, Abderrafi M. Ougouag, William K. Terry (INEEL), Kostadin Ivanov (Pennsylvania State University)

Feasibility of Using Burnable Poisons for Reduction of Coolant Void Reactivity in LMR for TRU Transmutation, Yong Nam Kim, Jong Kyung Kim (Hanyang University), Won Seok Park (Korea Atomic Energy Research Institute)

Plutonium Disposition in the PBMR-400 High-Temperature Gas-Cooled Reactor, Eben J. Mulder (PBMR (Pty) Ltd)

Definition of a Calculation Scheme with MONTEBURNS for Decay Heat Calculations of HTR Fuel, Anne De L'hermite (FRAMATOME-ANP)

Concept of a Gas Cooled Fast Reactor, N. Kuzavkov, Yu. Sukharev, S. Usynia (OKB Mechanical Engineering)

MINERVE Reactor Characterization in Support of the OSMOSE Program: Safety Parameters, Jean-Pascal Hudelot (CEA Cadarache), Raymond Klann, Bradley Micklich (ANL), Muriel Antony, Pierre Leconte, Jean-Michel Girard, Valerie Laval (CEA - Cadarache), Gregory Perret (CEA)

Thermo Mechanical Calculations for Integrated High Fidelity Reactor Core Simulations, Tanju Sofu (ANL)

Monte Carlo Midway Forward-Adjoint Coupling with Legendre Polynomials for Borehole Logging Applications, David Legrady, J. Eduard Hoogenboom (Delft University of Technology)

Visualization of Space-Dependency of Responses of Monte Carlo Calculations Using Legendre Polynomials, J. Eduard Hoogenboom, David Legrady (Delft University of Technology)



An Influence of Core Physics Peculiarities upon the Thermal Hydraulics Performance in Cascade Subcritical Molten Salt Reactor, Vladimir A. Nevinitsa, Pavel N. Alekseev, Aleksey A. Sedov, Peter A. Fomichenko, Alexander V. Vasiliev, Elyaz M. Aisen (Russian Research Center Kurchatov Institute), Andrey M. Voloshchenko (Keldysh Institute of Applied Mathematics)

AGENT Code: Open-Architecture Analysis and Configuration of Research Reactors – Graphic Tools, Tatjana Jevremovic, Dimitrios Andristos (Purdue University)

DELPHI:A New Subcritical Assembly at Delft University of Technology, Jan Leen Kloosterman (Delft University of Technology)

The Studies of RBMK-1500 Reactor Core Behavior during Abnormal Operation Transients, Arvydas Adomavicius, Anton Belousov, Jonas Gylys, Viktor Ognerubov, Stanislovas Ziedelis (Kaunas University of Technology), Audrius Jasiulevicius, Andrej Kubarev (Royal Institute of Technology)

Radiation Shielding Estimates for Interplanetary Manned Missions, Aaron Totemeier, Tatjana Jevremovic, Derek Hounshel, Sean Duckett (Purdue University)

Reduction of Cross-Section-Induced Errors of the BN-600 Hybrid Core Nuclear Parameters by Using BFS-62 Critical Experiment Data, Akira Shono, Taira Hazama, Makoto Ishikawa (Japan Nuclear Cycle Development Institute), Gennadi Manturov (Institute of Physics & Power Engineering)

Uncertainty Analysis Results on BN-600 Hybrid Core Nuclear Physics Characteristics, Gennadi Manturov, Mikhail Semenov, Anatoly Seregin, Anatoly Tsiboulya (Institute of Physics and Power Engineering - IPPE), Taira Hazama (Japan Nuclear Cycle Development Institute)

Analysis of SNEAK-7A & 7B Critical Benchmarks using 3-D Deterministic Transport and Sensitivity, Sang Kiim (KAERI), Ivo Kodeli, Enrico Sartori (OECD Nuclear Energy Agency)

Derivation of the Space and Energy Dependent Formula for the Third Order Neutron Correlation Technique, Tomohiro Endo, Yasunori Kitamura, Akio Yamamoto, Yoshihiro Yamane (Nagoya University)

Cross-Section Generation for TRADE Fuel, Ron Dagan, Cornelis H. M. Broeders, Madelena Badea, Anton Travleev (Forschungzentrum Karlsruhe(FZK))

On-line Determination of the Prompt Fraction of In-Core Neutron Detectors in CANDU Reactors, Christophe Demazière, Imre Pazsit (Chalmers University of Technology), Oszvald Glockler (Ontario Power Generation)

Dynamics of a Reduced Order Model of Natural Circulation BWR, Quan Zhou, Rizwan Uddin (University of Illinois at Urbana-Champaign)

Solution of the 1D Kinetic Diffusion Equations Using a Reduced Nodal Cubic Scheme, Edmundo Del Valle (Instituto Politecnico Nacional), Armando Gomez, Gustavo Alonso, Arturo Delfin (Instituto Nacional de Investigaciones Nucleares)

CANDU Reactor Simulations with a Full P1 Method, Jean Koclas (École Polytechnique de Montréal), Benoit Forget (Georgia Institute of Technology)

The Simplified Even-Parity SN Equations Applied to a MOX Fuel Assembly Benchmark Problem on Distributed Memory Environments, Gianluca Longoni, Alireza Haghighat (University of Florida)

On the Influence of Differences Between Various Group Microconstant Libraries and Between Different Transport Options on Calculation Results for Cells and Subassemblies of VVER-1000 Reactor, Nickolay Ilyich Laletin, Nikolay Sultanov Sr., Aleksey Kovalishin Sr. (RRC Kurchatov Institute)

Sipping Tests on a Failed Irradiated MTR Fuel Element, Carlos Alberto Zeituni, Luis Antonio Albiac Terremoto, José Eduardo Rosa Da Silva (Instituto de Pesquisas Energéticas e Nucleares)

Tuesday, April 27, 2004, 7:00 P.M.

Banquet Crystal Ballroom

Alan Waltar (Pacific Northwest National Laboratory)

Wednesday, April 28, 2004, 8:30 A.M.

Session 5A Fuel/Core Design and Analysis

Columbus EF

Session Organizers: Kord Smith (Studsvik-Scandpower). Session Chairs: Richard J. Cacciapouti (AREVA).

8:30 AM New Computational Methodology for Large 3D Neutron Transport Problems, Mohamed Dahmani, Robert Roy, Jean Koclas (École Polytechnique de Montréal)



8:50 AM	Spent Nuclear Fuel Analyses Based on In-Core Fuel Management Calculations, Sigurd Borresen (Studsvik Scandpower)
9:10 AM	ALAADIN/FLS - A BWR Fast Lattice Design Simulation Tool, Albert G. Gu, Robert J. Veklotz, Hoju Moon, Ralph G. Grummer, Craig Brown (Framatome ANP)
9:30 AM	The Feasibility Study of the Minimum-Shuffling Reloading Strategy for PWR, Masato Tabuchi (Nagoya University), Yasushi Hanayama, Masatoshi Yamasaki (Nuclear Fuel Industries, Ltd.), Akio Yamamoto (Nagoya University)
9:50 AM	Probability Approaching Method (PAM) and Its Application on Fuel Management Optimization, Zhihong Liu (Tsinghua University)
10:10 AM	Break
10:30 AM	High Fuel Burn-up and Nonproliferation in PWR-type Reactor on the Basis of Modified U- and Th-fuels, Gennady Genrikhovich Kulikov (International Science and Technology Center), Anatoly Nikolaevich Shmelev, Vladimir Alexandrovich Apse (Moscow Engineering Physics Institute)
10:50 AM	Over-Moderated MOX Fuel Assembly in a BWR Mixed Reload, Jose Ramon Ramirez-Sanchez (Instituto Nacional de Investigaciones Nucleares)
11:10 AM	Performance Comparison of Different Absorbent Materials in BWR Control Rods, José Luis Montes Tadeo (Mexican Nuclear Research Institute)
11:30 AM	Enriched Gadolinium as Burnable Absorber for PWR, Klaes-Håkan Bejmer (Vattenfall Bränsle AB, Sweden), Ola Seveborn (Uppsala University)
Session	5B Gas-Cooled Reactors Columbus G
Session Organi	zers: Alan Baxter (General Atomics). Session Chairs: Alan Baxter (General Atomics).
8:30 AM	The Pebble Bed Modular Reactor Layout and Neutronics Design of the Equilibrium Cycle, Frederik Reitsma (PBMR Pty Ltd)
8:50 AM	Neutronic Modeling for a Gas-Cooled Fast Reactor Assuming Coated Fuel Particles, Hervé Golfier, Laurent Buiron, Christine Poinot, Baptiste Pothet, Jean-François Salavy, Etienne Studer (CEA)
9:10 AM	Methodology for a Large Gas-Cooled Fast Reactor Core Design and Associated Neutronic Uncertainties, Jean-Christophe Bosq, Alain Conti, Gerald Rimpault, Garnier Jean-Claude (CEA)
9:30 AM	Optimal Moderation in the Pebble-Bed Reactor for Enhanced Passive Safety and Improved Fuel Utilization, Abderrafi M. Ougouag, Hans D. Gougar, William K. Terry (Idaho National Engineering and Environmental Laboratory), Ramatsemela Mphahlele, Kostadin Ivanov (Pennsylvania State University)
9:50 AM	Fuel Design and Core Layout for a Gas Cooled Fast Reactor, Wilfred Van Rooijen (Delft University of Technology - Interfaculty Reactor Institute), Jan Leen Kloosterman, Tim Van Der Hagen, Hugo Van Dam (Delft University of Technology)
10:10 AM	Break
10:30 AM	GT-MHR Core Modelling: From Reference Modelling Definition in Monte-Carlo Code to Calculation Scheme Validation, Frederic Damian, Xavier Raepsaet, Simone Santandrea, Alain Mazzolo, Christine Poinot (CEA - Saclay), Jean-Christophe Klein (CEA - Cadarache), Leandre Brault, Christian Garat (Framatome - ANP)
10:50 AM	Modeling of HTRs with Monte Carlo: Sensitivity due to Different Isotopic Fuel Composition, Danas Ridikas (CEA Saclay)
11:10 AM	Low-Conversion Ratio Gas-Cooled Fast Reactors, Edward A. Hoffman, Temitope A. Taiwo, Robert N. Hill (ANL)
11:30 AM	Possibility to Use Different Fuel Cycles in GT-MHR, N. Kodochigov, Yu. Sukharev, E. Marova (OKB Mechanical Engineering), N. Ponomarev-Stepnov, E. Glushkov, P. Fomichenko (RRC Kurchatov Institute)
Session	5C Critical and Subcritical Experiments Columbus H
	zers: Russell D. Mosteller (LANL), Robert Jacqmin (CEA Cadarache), Hironobu Unesaki (Kyoto University). : Russell D. Mosteller (LANL).
8:30 AM	Criticality Analysis of Highly Enriched Uranium / Thorium Fueled Thermal Spectrum Cores of Kyoto University Critical Assembly, Hironobu Unesaki, Tsuyoshi Misawa, Chihiro Ichihara, Keiji Kobayashi, Hiroshi Nakamura, Seiji Shiroya (Kyoto University) , Kazuhiko Kudo (Kyushu University)
8:50 AM	Analysis of Criticality Change with Time for MOX Cores, Ken Nakajima (Kyoto University), Takenori Suzaki (Japan Atomic Energy Research Institute)
9:10 AM	Subcritical Experiments in Uranium-Fueled Core with Central Test Zone of Tungsten, Tsuyoshi Yamane, Shigeaki Okajima (Japan Atomic Energy Research Institute)



9:30 AM	Re-Evaluation of SEFOR Doppler Experiments and Analyses with JNC and ERANOS systems, Taira Hazama (Japan Nuclear Cycle Development Institute), Jean Tommasi (CEA)
9:50 AM	The TRADE Source Multiplication Experiments, George Imel, Dmitri G. Naberejnev, Giuseppe Palmiotti (ANL), Laurence Mandard, Gilbert Granget (CEA), M. Carta (ENEA)
10:10 AM	Break
10:30 AM	Study of the Influence of a Pulsed Source in the Kinetics Measurements in a Subcritical System, Yolanda Rugama (CEA), George Imel (ANL)
10:50 AM	The MUSE Pulsed Neutron Source experiments, Enrique M. Gonzalez-romero (Centro de Estudios Energéticos Medioambientales y Tecnológicos)
11:10 AM	Reactivity Measurements and Neutron Spectrometry in the MUSE-4 Experiment, Annick Billebaud, Joachim Vollaire, Roger Brissot, Daniel Heuer, Christian Le Brun, Eric Liatard, Jean-marie Loiseaux, Olivier Meplan, Elsa Merle-Lucotte, Alexis Nuttin, Fabien Perdu (CNRS), Cristophe Destouches, Pascal Chaussonnet, Jean-Marc Laurens, Yolanda Rugama (CEA)
11:30 AM	Some Experimental Results from the Last Phases of the MUSE Program, Frederic Mellier (CEA), George Imel (ANL), Yolanda Rugama (Technological University of Delft), Christian Jammes (CEA), Jean-françois Lebrat (CEA)
Session	5D Reactor Analysis Methods Wrigley
	izers: Giuseppe Palmiotti (ANL), Giovanni Bruna (Framatome ANP), Jasmina Vujic (UC Berkley). Session Lewis (Northwestern University).
8:30 AM	Reactor Core Simulations in Canada, Robert Roy, Jean Koclas (École Polytechnique de Montréal), Wei Shen, Dave Jenkins, Dimitar Altiparmakov, Benjamin Rouben (Atomic Energy of Canada Limited)
8:50 AM	A New Method for the Treatment of Strong Local Heterogeneities and Its Application to the PHEBUS Experimental Facility, Ruggieri, Jean-Michel, Girardi Enrico (CEA)
9:10 AM	Mixed-Hybrid Methods for the Linear Transport Equation, Serge Van Criekingen, Elmer E. Lewis (Northwestern University)
9:30 AM	Adaptative Solution of the Multigroup Diffusion Equation on Irregular Structured Grids Using a Non Conforming Finite Element Method Formulation, Jean C. Ragusa (CEA)
9:50 AM	The Variational Nodal Method in R-Z Geometry, Hui Zhang (Northwestern University), Elmer E. Lewis (Northwestern University)
10:10 AM	Break
10:30 AM	Solving the Neutron Diffusion Equation on Combinatorial Geometry Computational Cells for Reactor Physics Calculations, Yousry Youssef Azmy, Professor (Pennsylvania State University)
10:50 AM	Development of Hybrid Core Calculation System Using 2-D Full-Core Heterogeneous Transport Calculation and 3-D Advanced Nodal Calculation, Masaaki Mori (Nuclear Engineering, Limited)
11:10 AM	A First-Order Spherical Harmonics Formulation Compatible with the Variational Nodal Transport Method, Micheal A. Smith, Giuseppe Palmiotti, Won Sik Yang (ANL), Elmer E. Lewis (Northwestern University)
11:30 AM	Investigating the Use of 3-D Deterministic Transport for Core Safety Analysis, Hans D. Gougar, Manager, D. Scott Lucas, Paul A. Roth (INEEL), Todd A. Wareing, Greg Failla, John McGhee (Radion Technologies)

Wednesday, April 28, 2004, 12:00 P.M.

Luncheon Columbus IJKL

Emerging Areas in Reactor Physics, Cecil Parks (Oak Ridge National Laboratory)

Wednesday, April 28, 2004, 1:30 P.M.

Session 6A Advanced Reactor Designs

Columbus EF

Session Organizers: Bojan Petrovic (Westinghouse), Mario Carelli (Westinghouse), Marc Delpech (CEA). Session Chairs: Mario Carelli (Westinghouse), Bojan Petrovic (Westinghouse).

1:30 PM Feasibility Issues in the Mixed Spectrum Supercritical Water Reactor, Taek K. Kim (ANL), Paul Wilson, Po Hu, Rachna Jain (University of Wisconsin-Madison)



1:50 PM	Reduced Moderation BWR with Advanced Recycle System (BARS), Kouji Hiraiwa, Kenichi Yoshioka, Yasushi Yamamoto, Miyuki Akiba, Mitsuaki Yamaoka (Toshiba), Junji Mimatsu (Gifu University)
2:10 PM	A Core Design for a Single Fuel Enrichment in a Self-Sustaining Lead-Cooled Reactor, Yonghee Kim, Choong Ho Cho, Sang Ji Kim, Tae Yung Song (Korea Atomic Energy Research Institute)
2:30 PM	Neutronics Design Studies of a Lead Cooled, Small Modular Reactor, Micheal A. Smith, Won Sik Yang, Temitope A. Taiwo (ANL)
	Physics and Safety Studies of a 0.25 Conversion Ratio Sodium Cooled Fast Reactor, Micheal A. Smith, James E. Cahalan, Robert N. Hill (ANL)
3:10 PM	Break
	Neutronics Design Studies for a 400 MWt STAR-LM, Gerardo Aliberti, Won Sik Yang, John Stillman, Robert N. Hill (ANL)
3:50 PM	PDS-XADS LBE and Gas-Cooled Concepts: Neutronic Parameters Comparison, Sandro Pelloni (Paul Scherrer Institut)
4:10 PM	Study of Accelerator Transient on ADS Operation Using TRACY(TRAnsient experiment Critical facilitY), Satoshi Gunji (Tohoku University)
4:30 PM	Activities of Working Party on 'Subcritical Core of Accelerator-Driven System' in the Research Committee on Reactor Physics of AESJ and JAERI, Tomohiko Iwasaki (Tohoku University)
Session	6B Nuclear Safety Columbus G
	zers: Kostadin N. Ivanov (Pennsylvania State University), Werner Maschek (Karlsruhe). Session Chairs: David), Siegfried Langenbuch (GRS), Eric Royer (CEA).
1:30 PM	Effect of Spatial Power Distribution during Reactivity Initiated Accidents in a PWR, Alexander Avvakumov, Valery Malofeev, Victor Sidorov (Russian Research Centre)
1:50 PM	Analysis of Boron Dilution Transients in PWRs, David Diamond, Blair Bromley, Arnold Aronson (BNL)
	Uncertainty Evaluation of the Results of the MSLB Benchmark by CIAU Methodology, Alessandro Petruzzi (Pennsylvania State University), Francesco S. D'auria (University of Pisa), Kostadin Ivanov (Pennsylvania State University)
	Improving the Computation Efficiency of COBRA-TF for LWR Safety Analysis of Large Problems, Diana Cuervo (Polytechnic University of Madrid), Maria Nikolova Avramova, Graduate Student (Pennsylvania State University), Kostadin Ivanov, Associate Professor (Pennsylvania State University)
2:50 PM	POLCA-T Simulation of OECD/NRC BWR Turbine Trip Benchmark Exercise 3 Best Estimate Scenario TT2 Test and Four Extreme Scenarios, Dobromir Panayotov (Westinghouse Atom AB)
3:10 PM	Break
	Localized Void Feedback Effects Under Single Rod Drop Transient in BWR, Akitoshi Hotta, Hiroshi Shirai (TEPCO Systems Corporation)
	Peach Bottom-2 Low-Flow Stability Test using Trac-Bf1/Valkin and Relap5-Mod.3.3/Parcs Codes, Rafael Miró, Ana María Sánchez, Gumersindo Verdu Martin, Damian Ginestar (Universitat Politecnica de Valencia), Francesca Maggini, Francesco D'auria (Università di Pisa)
4:10 PM	Bruce 'B' Core Conversion, Evgeny Braverman, Ovidiu Nainer (Bruce Power)
	Coupled Neutronics-Thermalhydraulics Calculations for the Safety Analysis of the PBMR., Bismark Mzubanzi Tyobeka, Kostadin Ivanov (Pennsylvania State University)
Session	6C Physics Code Validation Columbus H
	zers: Alain Santamarina (CEA Cadarache), Robert Jacqmin (CEA Cadarache), Richard Sanchez (CEA). Alain Santamarina (CEA Cadarache).
	Experimental Validation of APOLLO2 Code for High Burnup MOx Fuels. JEF2.2 Results and JEFF3.0 Improvements, Bernard David (CEA Cadarache)
	Assessment of CASMO-4 Predictions of the Isotopic Inventory of High Burn-up MOX Fuel, Rafael Macian, Martin A. Zimmermann, Rakesh Chawla (Paul Scherrer Institut)
	PANDA Code Features and Application to the OECD/NEA 3D-MOX Assembly Benchmark Calculation, Philippe P. Humbert (CEA)
	Benchmarking DeCART (Deterministic Core Analysis based on Ray Tracing) with the VENUS-2, Zhaopeng Zhong, Thomas J. Downar (Purdue University)



2:50 PM	Monte Carlo Analysis of High Moderation 100% MOX BWR Cores using JEF2 and JENDL3 Nuclear Data, Olivier Litaize, Alain Santamarina (CEA)
3:10 PM	Break
3:30 PM	Experimental Validation of Pin Power Distributions for a BWR Assembly with Hafnium Control Blades, Fabian Jatuff (Paul Scherrer Institut)
3:50 PM	Validation of Integrated Burnup Code System SWAT2 by the Analysis of Isotopic Composition Data of Spent Nuclear Fuel, Kenya Suyama (JAERI), Hiroki Mochizuki (The Japan Research Institute Limited), Hiroshi Okuno, Yoshinori Miyoshi (JAERI)
4:10 PM	Verification of Lattice Analysis Method through BWR UO2 PIE Data Analysis, Toru Yamamoto (Japan Nuclear Energy Safety Organization)
4:30 PM	Uncertainty Analysis Applied to Fuel Depletion Calculations, Rafael Macian, Martin A. Zimmermann, Rakesh Chawla (Paul Scherrer Institut)
Session	6D Reactor Analysis Methods Wrigley
	zers: Giuseppe Palmiotti (ANL), Giovanni Bruna (Framatome ANP), Jasmina Vujic (UC Berkley). Session ik Yang (ANL).
1:30 PM	Neutronics Codes Currently Used in Japan for Fast and Thermal Reactor Applications, Toshikazu Takeda (Osaka University)
1:50 PM	HORUS3D Code Package Development and Validation for the JHR Modeling, Guy Pierre Willermoz, Alain Aggery, Jacques Di-salvo, Christoph Doderlein, Danielle Gallo, Nicolas Huot, Stéphane Loubière, Brigitte Noël (CEA)
2:10 PM	On Some Features of Quasi-Static Schemes in Reactor Kinetics, Piero Ravetto, Sandra Dulla (Politecnico Di Torino), Matteo M. Rostagno (ENEA-Bologna)
2:30 PM	Albedo Conditions for Multigroup Anisotropic Scattering Models of Nuclear Reactors, Marcos P. De Abreu (State University of Rio de Janeiro)
2:50 PM	An Algebraic Multgrid Resolution Strategy for the DPn Synthetic Acceleration Method, Simone Santandrea (CEA)
3:10 PM	Break
3:30 PM	Convergence Analysis of 2-D/1-D Coupling Strategies for Diffusion Equation, Hyun Chul Lee, Deokjung Lee, Thomas J. Downar (Purdue University)
3:50 PM	Numerical Convergence Analysis of the Nonlinear CMFD Method for Three-Dimensional Two-Group LWR Diffusion Problems, Deokjung Lee, Thomas J Downar (Purdue University), Yonghee Kim (Korea Atomic Energy Research Institute)
4:10 PM	An Approach of Super-Element Sweeping for the Solution of Neutron Transport Equation in Heterogeneous Geometry, Nam Cho, Gil Soo Lee (KAIST)
4:30 PM	Efficient Hybrid NEM/BEM Transient Method, Dianna M. Hahn, Kostadin Ivanov (Pennsylvania State University), Piero Ravetto (Politecnico Di Torino), Matteo Rostagno (ENEA-Bologna)

Thursday, April 29, 2004, 8:30 A.M.

Plenary Session - Efforts in Code Development and Reactor Modeling

Regency A

Neutronics Codes Currently Used in Japan for Fast and Thermal Reactor Applications, Toshikazu Takeda (Osaka University)

Monte-Carlo Methods and MCNP Code Developments, Forrest Brown (Los Alamos National Laboratory)

Thursday, April 29, 2004, 10:00 A.M.

Session 7A Non-Conventional Reactors

Columbus EF

Session Organizers: Jan Leen Kloosterman (Delft University of Technology). Session Chairs: Danny Lathouwers (Interfaculty Reactor Institute).

10:00 AM Simulations of Caliban Fast Pulsed Reactor Burst Wait Time Distribution using PANDA, Philippe P. Humbert, Boukhmes Mechitoua (CEA)



10:20 AM	Passive Decay Heat Removal in a Fluidized Bed Nuclear Reactor, Alexander Agung (Delft University of Technology), Danny Lathouwers (Interfaculty Reactor Institute), Tim Van Der Hagen, Hugo Van Dam (Delft University of Technology), Chris Pain, Anthony J. Goddard (Imperial College)
10:40 AM	Molten Salt Reactors and Possible Scenarios for Future Nuclear Power Deployment, Elsa Merle-Lucotte, Daniel Heuer, Ludovic Mathieu, Jean-Marie Loiseaux, Annick Billebaud, Roger Brissot, Christian Le Brun, Olivier Laulan, Eric Liatard, Olivier Meplan, Alexis Nuttin, Sylvain David, Franco Michel-Sendis (Centre National de la Recherche Scientifique)

- 11:00 AM Closing the PWR Fuel Cycle with a Molten-Salt Incinerator, Radim Vocka (Nuclear Research Institute Rez plc.)
- 11:20 AM Monte Carlo Calculation of the Effects of Delayed Neutron Precursor Transport in Molten Salt Reactors, P.F.A. de Leege (Delft University of Technology)
- 11:40 AM Studies of Physical Features of Cascade Subcritical Molten Salt Reactor with External Neutron Source, Vladimir A. Nevinitsa, Pavel N. Alekseev, Peter A. Fomichenko, Alexander V. Vasiliev, Anatoly A. Dudnikov, Aleksey A. Sedov, Stanislav A. Subbotin (Russian Research Center Kurchatov Institute), Andrey M. Voloshchenko (Keldysh Institute of Applied Mathematics)

Session 7B Nuclear Data Columbus G

Session Organizers: Luiz Leal (ORNL), Mark Chadwick (LANL). Session Chairs: Russell Mosteller (LANL), Alain Santamarina (CEA Cadarache).

- 10:00 AM New Neutron Cross Section Measurements at ORELA for Improved Nuclear Data, Klaus H. Guber, Luiz C. Leal, Royce O. Sayer, Paul E. Koehler (ORNL)
- 10:20 AM Measurement and Calculation of the 233Pa Fission Cross-Section for Advanced Fuel Cycles, Franz-Josef Hambsch, Stephan Oberstedt, Volker Fritsch (EC-JRC-IRMM), Fredrik Tovesson, Andreas Oberstedt, M Fleneus, C. Gustafsson (Oerebro University), Birger Fogelberg, Elisabet Ramstroem (Uppsala University), Georghita Vladuca, Anabella Tudora, D. Filipescu (Bucharest University)
- 10:40 AM Scattering Law Data for Graphite in Gas Cooled High Temperature Reactors, Wolfgang Bernnat, Margarete Mattes, Juergen Keinert, Dr. (University of Stuttgart)
- 11:00 AM An Unresolved Resonance Evaluation for U-235, Luiz Leal (Oak Ridge National Laboratory)
- 11:20 AM Status of a New Evaluation of the Neutron Resonance Parameters of 238U at ORNL, Herve Derrien (ORNL)
- 11:40 AM JEF2.2 nuclear data statistical adjustment using Post-Irradiation Experiments, Arnaud Courcelle, Alain Santamarina (CEA)

Session 7C Nuclear Safety

Columbus H

Session Organizers: Kostadin N. Ivanov (Pennsylvania State University), Werner Maschek (Karlsruhe). Session Chairs: Akitoshi Hotta (TEPCO Systems Corporation), Dobromir Panayotov (Westinghouse Atom AB).

- 10:00 AM OECD/DOE/CEA VVER-1000 Coolant Transient (V1000CT) Benchmark for Assessing Coupled Neutronics/Thermal-Hydraulics System Codes for VVER-1000 RIA Analysis, Boyan D Ivanov, Kostadin N Ivanov (Pennsylvania State University), Eric Denis Royer, Sylvie Aniel (CEA), Nikola Kolev, Pavlin Groudev (INRNE)
- 10:20 AM Uncertainty and Sensitivity Analysis Applied to Coupled Code Calculations for a VVER Plant Transient, Siegfried Langenbuch (Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH)
- 10:40 AM Study of Nuclear Fuel Behavior with Coupled 3D Neutronics/Thermal-Hydraulic Codes, Carlo Parisi (University of Pisa), Kostadin Ivanov (Pennsylvania State University), Francesco S. D'auria (University of Pisa)
- 11:00 AM TRAC-M/AAA Code Assessment for Transient Analysis of Pb-Bi Cooled Fast-Spectrum Reactor Systems, Konstantin Mikityuk, Paul Coddington, Rakesh Chawla (Paul Scherrer Institut)
- 11:20 AM Source and Reactivity Perturbations in Accelerator Driven Systems with Conventional MOX and Advanced Fertile Free Fuel, Xue-nong Chen, Tohru Suzuki, Andrei Rineiski, Claudia Matzerath Boccaccini, Werner Maschek (Forschungszentrum Karlsruhe), Peter Smith (Serco Assurance)
- 11:40 AM Safety Characteristics of Candidate Oxide Fuels for Accelerator Driven Transmuters, Tim Newton, Peter Smith (Serco Assurance)



Session	7D	Physics and Modeling of Research Reactors in INIE's Big-10	Columbus IJ
		Consortium	

Session Organizers: Yousry Azmy (Pennsylvania State University), Rizwan Uddin (University of Illinois at Urbana-Champaign). Session Chairs: Yousry Azmy (Pennsylvania State University), Rizwan Uddin (University of Illinois at Urbana-Champaign).

10:00 AM	Beam Calculation for TRIGA Reactor, Rizwan Uddin (University of Illinois at Urbana-Champaign)
10:20 AM	Thermal Neutron Time-of-Flight Spectroscopy at Penn State using a Single-Disk Chopper, John Niederhaus (University of Wisconsin-Madison), Jack Brenizer, Kenan Unlu (Pennsylvania State University)
10:40 AM	UIUC's Contribution to Big-10's INIE Project, Rizwan Uddin (University of Illinois at Urbana-Champaign), Nick Karancevic (University of Illinois)
11:00 AM	Modeling of Existing Beam-Port Facility at PSU Breazeale Reactor by Using MCNP, Baris Sarikaya, Fatih Alim, Kostadin N. Ivanov, Kenan Unlu, Jack Brenizer, Yousry Azmy (Pennsylvania State University)
11:20 AM	AGENT Code: Open-Architecture Analysis and Configuration of Research Reactors – Numerical Examples, Tatjana Jevremovic, Yefei Peng, Hyun Lee (Purdue University)
11:40 AM	A Three Dimensional Two Energy Group Coupled Reactor Physics and Thermal Hydraulics Code (M32) - A Tool for Student Design Studies, James Brushwood, Philip A. Beeley (University of Surrey)

Thursday, April 29, 2004, 1:00 P.M.

Session 8A Fuel Cycle Physics

Columbus EF

Session Organizers: Alain Zaetta (CEA Cadarache), Michael Todosow (BNL). Session Chairs: Michael Todosow (BNL), Alain Zaetta (CEA Cadarache).

Hain Zaeta (CEA Cadarache).				
1:00 PM	A Study on High-Intensity Radiation Protection of MOX-Fuel Doped with 231Pa and 137Cs, Eduard Kryuchkov (Moscow Engineering Physics Institute (State University))			
1:20 PM	Optimization Studies for Seed-and-Blanket Unit (SBU) Fuel Assemblies in PWRs, Blair P. Bromley, Michael Todosow, Arnold Aronson (BNL), Alex Galperin (Ben-Gurion University of the Negev)			
1:40 PM	Reactivity and Neutron Emission Measurements of Burnt PWR Fuel Rod Samples in LWR-PROTEUS Phase II, Michael F. Murphy, Fabian Jatuff (Paul Scherrer Institut)			
2:00 PM	LWR Spent Fuel Fed Molten Salt Reactor Design and Analysis, Massimiliano Fratoni, Ehud Greenspan, David Barnes (University of California, Berkeley), Augusto Gandini (University of Rome)			
2:20 PM	On the Capability of SMORES to Account for Self-Shielding in Search for Maximum keff, Ehud Greenspan, Yonathan - Karni (University of California)			
2:20 PM	Concept for a Thermal-Hydraulic 3D Parallel Channel Core Model, Alois Hoeld (Private (Retired))			
2:40 PM	Reactivity Effects due to the Beryllium Poisoning of BR2 - MCNP Calculations, Silva Kalcheva, Bernard Ponsard, Edgar Koonen (SCK-CEN (Belgian Nuclear Research Center))			
Session	8B Nuclear Data Columbus G			
Session Organizers: Luiz Leal (ORNL), Mark Chadwick (LANL). Session Chairs: Michael Dunn (ORNL), Soo-Youl Oh (KAERI).				

An Assessment of ENDE/B-VI Releases Using the MCNP Criticality Validation Suite, Russell D. Mosteller 1.00 PM

1:00 PM	An Assessment of ENDF/B-VI Releases Using the MCNP Criticality Validation Suite, Russell D. Mosteller (LANL)
1:20 PM	Generation and Performance of a Multigroup Coupled Neutron-Gamma Cross-Section Library for Deterministic and Monte Carlo Borehole Logging Analysis, J. Eduard Hoogenboom (Delft University of Technology), Ivo Kodeli (OECD), Daniel L Aldama (Jozef Stefan Institute), Piet F.a. De Leege, David Legrady (Delft University of Technology)
1:40 PM	On the Importance of a New Formula for the Double Differential Scattering Kernel, Ron Dagan (FZK-Forschungzentrum Karlsruhe)
2:00 PM	Effect of Energy Self-Shielding on Reactor Benchmark Problems, F. Arzu Alpan, Luiz Leal (ORNL), Arnaud Courcelle (CEA)
2:20 PM	Development of a Methodology for Analysis of the Impact of Modifying Neutron Cross Sections, Michael T. Wenner, Alireza Haghighat (University of Florida)
2:40 PM	The Fission Spectrum Uncertainty, Bryan Broadhead (University of Tennessee, Battelle), Jekutiel Jehudah Wagschal (Hebrew University of Jerusalem)



- 3:00 PM The TRADE Experiment: Importance of Neutron Cross-Sections for Transmutation, Yacine Kadi, Adonai Herrera-Martinez, Marcus Dahlfors (European Organization for Nuclear Research)
- 3:20 PM Box-Cox Transformation for Resolving the Peelle's Pertinent Puzzle in a Curve Fitting, Soo-Youl Oh (Korea Atomic Energy Research Institute)

Session 8C Physics Code Validation

Columbus H

Session Organizers: Alain Santamarina (CEA Cadarache), Robert Jacqmin (CEA Cadarache), Richard Sanchez (CEA). Session Chairs: Alain Santamarina (CEA Cadarache).

- 1:00 PM Benchmark Calculation of WIMS/RFSP against Wolsong Nuclear Power Plants 3 and 4 Physics Measurement Data, Hangbok Choi, Donghwan Park (Korea Atomic Energy Research Institute)
- 1:20 PM Qualification of MCNP Coolant Void Reactivity Calculations using ZED-2 Measurements, Ken Kozier (Atomic Energy of Canada Ltd.)
- 1:40 PM Comparisons of DYN3D Calculations with Measurements at the V-1000 Test Facility, Ulrich Grundmann (Forschungszentrum Rossendorf (FZR)), Siegfried Mittag (Forschungszentrum Rossendorf Inc.)
- 2:00 PM Validation of SCALE4.4a/CSAS25 for Nuclear Criticality Safety Analyses, Robert H. Smith (BWXT Y-12), John Declue, Cris Worley (Y-12 National Security Complex)
- 2:20 PM The Nuclear Heating Calculation Scheme for Material Testing in the Future Jules Horowitz Reactor, Nicolas Huot, Arnaud Courcelle, David Blanchet, Jacques Di-Salvo, Cristophe Doderlein, Hugues Serviere, Guy Pierre Willermoz (CEA Cadarache), Alain Aggery (CEA Saclay)
- 2:40 PM Analysis of the ZPR-9 Gas-Cooled Fast Reactor Experiments Using JEF-2.2 Data and the ERANOS Code System, Jean Tommasi (CEA)
- 3:00 PM Spatially and Temperature Dependent Dancoff Method for LWR Lattice Physics Code, Hideki Matsumoto (Mitsubishi Heavy Industries, Ltd. (Japan)), Mohamed Ouisloumen (Westinghouse Electric Company), Yoshihisa Tahara (Mitsubishi Heavy Industries, Ltd. (Japan))

Session 8D Reactor Analysis Methods

Columbus I.I

Session Organizers: Giuseppe Palmiotti (ANL), Giovanni Bruna (Framatome ANP), Jasmina Vujic (UC Berkley). Session Chairs: Cecil Parks (ORNL), Jasmina Vujic (UC Berkley).

- 1:00 PM French Calculation Schemes for Light Water Reactor Analysis, Alain Santamarina (CEA), P. Bioux (EDF/DRD), Christian Garat (FRAMATOME-ANP SAS), Christine Poinot (CEA)
- 1:20 PM Irradiation Experiment Analysis for Cross Section Validation, Giuseppe Palmiotti (ANL)
- 1:40 PM Methodologies for Treatment of Spectral Effects at Core-Reflector Interfaces in Fast Neutron Systems, Gerardo Aliberti (ANL)
- 2:00 PM Effect of Pellet Radial Power and Temperature Distribution on Fuel Assembly Neutronics, Mohamed Ouisloumen, (Westinghouse Electric Corporation), Emily Wolters (Westinghouse Company), Hideki Matsumoto (Mitsubishi Heavy Industries, Ltd)
- 2:20 PM A Comparison of Binary Stochastic Media Transport Models in 'Solid-Void' Mixtures, Ian Davis, Todd S. Palmer (Oregon State University), Edward W. Larsen (University of Michigan)
- 2:40 PM Development of an Object Oriented Nodal Code using the Refined AFEN Derived from the Method of Component Decomposition, Jae Man Noh, Jae-Woon Yoo, Hyung-Kook Joo (Korea Atomic Energy Research Institute)
- 3:00 PM Applications of Modal-Local Analysis for Source-Driven Subcritical Systems, Viktoriya V. Kulik (University of Michigan), John Lee (University of Michigan)
- 3:20 PM Development of a Polynomial Nodal Model for the Multi Group Diffusion Equation in 2-D, Afshin Shojaei (Esfahan Nuclear Technology Center, Iran)



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	Aggery, Alain	HORUS3D Code Package Development and Validation for the JHR Modeling	6D
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	Alpan, F. Arzu	Effect of Energy Self-Shielding on Reactor Benchmark Problems	8B
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